

Atty. Docket No.: 3284/1230

PATENT

1632
#14
8-12-02
P.2

C AF
8-1-02
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Habener, et al.
Serial No.: 09/731,261
Filed: December 6, 2000
Entitled: "Stem Cells of the Islets of Langerhans and Their Use in Treating Diabetes Mellitus"

Examiner: Unknown
Group Art Unit: 1632
Conf. No.: 9060

TECH CENTER 1600/2900

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CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8a

I hereby certify that this correspondence (and any paper or fee referred to as being enclosed) is being deposited with the United States Post Office as First Class Mail on the date indicated below in an envelope addressed to: U.S. Patent & Trademark Office, Box: Sequence, P.O. Box 2327, Arlington, VA 22202..

Kathleen Williams

Name of Person Mailing Paper

Signature of Person Mailing Paper

U.S. Patent and Trademark Office
Box: Sequence
P.O. Box: 2327
Arlington, VA 22202

TRANSMITTAL LETTER

Enclosed for filing the above-identified patent application, please find the following documents:

1. Copy of Notice to Comply;
2. Paper Copy of the Sequence Listing (20 pgs);
3. Computer Readable Copy of the Sequence Listing;
4. Statement Under 37 CFR 1.821 (f) and (g); and
5. Return Post Card.

The Commissioner for Patents is hereby authorized to charge any additional fees or credit any overpayment in the total fees to Deposit Account No. 16-0085, Reference 3284/1230. A duplicate of this transmittal letter is enclosed for this purpose.

Respectfully submitted,

Date: August 1, 2002

Name: Kathleen Williams
Registration No.: 34,380
Customer No.: 29933
Palmer & Dodge LLP
111 Huntington Avenue
Boston, MA 02199-7613
Tel: 617-239-0100



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/731,261	12/06/2000	Joel F. Habener	17633/1230	9060

29933 7590 07/02/2002

PALMER & DODGE, LLP
KATHLEEN M. WILLIAMS
111 HUNTINGTON AVENUE
BOSTON, MA 02199

[REDACTED] EXAMINER

WEHBE, ANNE MARIE SABRINA

[REDACTED] ART UNIT

[REDACTED] PAPER NUMBER

1632

DATE MAILED: 07/02/2002

b3

Please find below and/or attached an Office communication concerning this application or proceeding.

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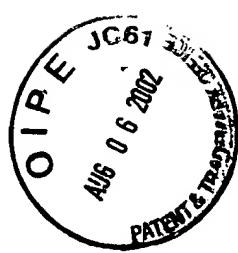
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Docket # Danu
Response due Notice to Comply - 1 month
Statutory period 8/1/02 - 1/2/03
Palmer & Dodge LLP
(ESP)
Patent Department

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PATENT DEPT.
PALMER & DODGE LLP



Atty. Docket No.: 3284/1230

PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Habener, et al.
Serial No.: 09/731,261
Filed: December 6, 2000
Entitled: "Stem Cells of the Islets of Langerhans and Their Use in Treating Diabetes Mellitus"

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Kathleen Williams
Name of Person Mailing Paper


Signature of Person Mailing Paper

U.S. Patent and Trademark Office
Box: Sequence
P.O. Box: 2327
Arlington, VA 22202

STATEMENT UNDER 37 C.F.R. §1.821(f) and (g)

Sir:

This paper is submitted in response to the Notice to Comply mailed by the USPTO on July 2, 2002.

In accordance with 37 C.F.R. §1.821 (f) I hereby state that the paper copy and the computer readable form of the Sequence Listing submitted herewith in the above-identified patent application are supported in the application and contain no new matter. I hereby state that the information recorded in computer readable form is identical to the written sequence listing.

In accordance with 37 C.F.R. §1.821 (g), I hereby state that the computer readable form of the Sequence Listing submitted herewith contains no new matter.

Respectfully submitted,

Date: August 1, 2002



Name: Kathleen Williams
Registration No.: 34,380
Customer No.: 29933
Palmer & Dodge LLP
111 Huntington Avenue
Boston, MA 02199-7613
Tel: 617-239-0100



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
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09/731,261 12/06/00

Habener et al.

17633/1230

EXAMINER

A.M.S. Wehbé

ART UNIT

PAPER NUMBER

1632

13

DATE MAILED:

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Please find below a communication from the EXAMINER in charge of this application.

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821 (a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures. This is the second communication regarding this issue.

Any inquiry concerning this communication should be directed to Examiner A.M.S. Wehbé, Ph.D., Art Unit 1632, whose telephone number is (703) 306-9156. Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center receptionist whose telephone number is (703) 308-0196.

APPLICANT IS GIVEN A ONE MONTH EXTENDABLE PERIOD WITHIN WHICH TO COMPLY WITH THE SEQUENCE RULES, 37 CFR 1.821-1.825. Failure to comply with these requirements will result in ABANDONMENT of this application under 37 CFR 1.821 (g). Extension of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136. In no case may an applicant extend the period for response beyond the six month statutory period. Applicant is requested to return a copy of the attached Notice To Comply with the response.

ANDREW

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING
NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- 6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- 7. Other: _____

Applicant Must Provide:

- An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216
For CRF Submission Help, call (703) 308-4212
For PatentIn software help, call (703) 308-6856

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE

4-12
6-7-02
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BIOTECHNOLOGY
SYSTEMS
BRANCH



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RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/731,261
Source: 1632
Date Processed by STIC: 6-5-02

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TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

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JUN 07 2002

Raw Sequence Listing Error Summary

TECH CENTER 1600/2900

ERROR DETECTED SUGGESTED CORRECTION SERIAL NUMBER: 09/731,261

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHIA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE.

- 1 **Wrapped Nucleics** The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 **Invalid Line Length** The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 **Misaligned Amino Numbering** The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 **Non-ASCII** The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 **Variable Length** Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 **PatentIn 2.0 "bug"** A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 **Skipped Sequences (OLD RULES)** Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped
 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 **Skipped Sequences (NEW RULES)** Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
 <210> sequence id number
 <400> sequence id number
 000

9 **Use of n's or Xaa's (NEW RULES)** Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents

10 **Invalid <213> Response** Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or Artificial Sequence

11 **Use of <220>** Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 **PatentIn 2.0 "bug"** Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

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Does Not Comply
 Corrected Diskette Needed
 See Additional pages 1 & 2
 See extra page 1



1632

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/731,261

DATE: 06/05/2002
TIME: 10:14:17

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3 <110> APPLICANT: Habener, Joel
 4 Zulewski, Hendrik
 5 Abraham, Elizabeth
 6 Vallejo, Mario

8 <120> TITLE OF INVENTION: STEM CELLS OF THE ISLETS OF LANGERHANS AND THEIR USE IN
 TING DIABETES

9 MELLITUS

11 <130> FILE REFERENCE: 3284/1230

13 <140> CURRENT APPLICATION NUMBER: US 09/731,261

14 <141> CURRENT FILING DATE: 2000-12-06

16 <150> PRIOR APPLICATION NUMBER: US 60/169,082

17 <151> PRIOR FILING DATE: 1999-12-06

19 <150> PRIOR APPLICATION NUMBER: US 60/215,109

20 <151> PRIOR FILING DATE: 2000-06-28

22 <150> PRIOR APPLICATION NUMBER: US 60/239,880

23 <151> PRIOR FILING DATE: 2000-10-06

25 <160> NUMBER OF SEQ ID NOS: 55

27 <170> SOFTWARE: PatentIn version 3.1

29 <210> SEQ ID NO: 1

30 <211> LENGTH: 4854

31 <212> TYPE: DNA

32 <213> ORGANISM: Homo sapiens

34 <400> SEQUENCE: 1

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/731,261

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TIME: 10:14:17

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/731,261

DATE: 06/05/2002
TIME: 10:14:17

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Output Set: N:\CRF3\06052002\I731261.raw

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191	ggggcaagga	atgcgctagt	ctctgaggg	gaccgaggg	gccccttca	ggaggaggag	4740										
193	gggagtgtc	tgaagaggtc	ttccggcagg	gctcctgttc	acctgggcca	gggtcagttc	4800										
195	ctgaagttca	ctcagaggg	aggagataga	gagtccctgg	cctcagggga	ggac	4854										
198	<210>	SEQ ID NO:	2														
199	<211>	LENGTH:	1618														
200	<212>	TYPE:	PRT														
201	<213>	ORGANISM:	Homo sapiens														
203	<400>	SEQUENCE:	2														
205	Met	Glu	Gly	Cys	Met	Gly	Gl	Leu	Asn								
206	1	5			10				15								
209	Arg	Arg	Leu	Glu	Ala	Tyr	Leu	Gly	Arg	Val	Lys	Ala	Glu	Gln			
210			20			25				30							
213	Asn	Glu	Leu	Leu	Ser	Ala	Gly	Leu	Gly	Gly	Leu	Arg	Arg	Gln	Ser	Ala	
214			35			40				45							
217	Asp	Thr	Ser	Trp	Arg	Ala	His	Ala	Asp	Asp	Glu	Leu	Ala	Ala	Leu	Arg	
218			50			55				60							
221	Ala	Leu	Val	Asp	Gln	Arg	Trp	Arg	Glu	Lys	His	Ala	Ala	Glu	Val	Ala	
222			65			70				75				80			
225	Arg	Asp	Asn	Leu	Ala	Glu	Glu	Leu	Gly	Val	Ala	Gly	Arg	Cys	Glu		
226			85			90				95							
229	Gln	Leu	Arg	Leu	Ala	Arg	Glu	Arg	Thr	Thr	Glu	Glu	Val	Ala	Arg	Asn	
230			100			105				110							
233	Arg	Arg	Ala	Val	Glu	Ala	Glu	Lys	Cys	Ala	Arg	Ala	Trp	Leu	Ser	Ser	
234			115			120				125							
237	Gln	Gly	Ala	Glu	Leu	Glu	Arg	Glu	Leu	Glu	Ala	Leu	Arg	Val	Ala	His	
238			130			135				140							
241	Glu	Glu	Glu	Arg	Val	Gly	Leu	Asn	Ala	Gln	Ala	Ala	Cys	Ala	Pro	Arg	
242			145			150				155				160			
245	Leu	Pro	Ala	Pro	Pro	Arg	Pro	Pro	Ala	Pro	Ala	Pro	Glu	Val	Glu	Glu	
246						165				170				175			
249	Leu	Ala	Arg	Arg	Leu	Gly	Glu	Ala	Trp	Arg	Gly	Ala	Val	Arg	Gly	Tyr	
250						180				185				190			
253	Gln	Glu	Arg	Val	Ala	His	Met	Glu	Thr	Ser	Leu	Asp	Gln	Thr	Arg	Glu	
254						195				200				205			
257	Arg	Leu	Ala	Arg	Ala	Val	Gln	Gly	Ala	Arg	Glu	Val	Arg	Leu	Glu	Leu	
258						210				215				220			
261	Gln	Gln	Leu	Gln	Ala	Glu	Arg	Gly	Gly	Leu	Leu	Glu	Arg	Arg	Ala	Ala	
262			225			230				235				240			
265	Leu	Glu	Gln	Arg	Leu	Glu	Gly	Arg	Trp	Gln	Glu	Arg	Leu	Arg	Ala	Thr	
266						245				250				255			
269	Glu	Lys	Phe	Gln	Leu	Ala	Val	Glu	Ala	Leu	Glu	Gln	Glu	Lys	Gln	Gly	

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/731,261

DATE: 06/05/2002

TIME: 10:14:17

Input Set : A:\ptoms.TXT

Output Set: N:\CRF3\06052002\I731261.raw

270	260	265	270
273	Leu Gln Ser Gln Ile Ala Gln Val Leu Glu Gly Arg Gln Gln Leu Ala		
274	275	280	285
277	His Leu Lys Met Ser Leu Ser Leu Glu Val Ala Thr Tyr Arg Thr Leu		
278	290	295	300
281	Leu Glu Ala Glu Asn Ser Arg Leu Gln Thr Pro Gly Gly Ser Lys		
282	305	310	315
285	Thr Ser Leu Ser Phe Gln Asp Pro Lys Leu Glu Leu Gln Phe Pro Arg		320
286	325	330	335
289	Thr Pro Glu Gly Arg Arg Leu Gly Ser Leu Leu Pro Val Leu Ser Pro		
290	340	345	350
293	Thr Ser Leu Pro Ser Pro Leu Pro Ala Thr Leu Glu Thr Pro Val Pro		
294	355	360	365
297	Ala Phe Leu Lys Asn Gln Glu Phe Leu Gln Ala Arg Thr Pro Thr Leu		
298	370	375	380
301	Ala Ser Thr Pro Ile Pro Pro Thr Pro Gln Ala Pro Ser Pro Ala Val		
302	385	390	395
305	Asp Ala Glu Ile Arg Ala Gln Asp Ala Pro Leu Ser Leu Leu Gln Thr		400
306	405	410	415
309	Gln Gly Gly Arg Lys Gln Ala Pro Glu Pro Leu Arg Ala Glu Ala Arg		
310	420	425	430
313	Val Ala Ile Pro Ala Ser Val Leu Pro Gly Pro Glu Glu Pro Gly Gly		
314	435	440	445
317	Gln Arg Gln Glu Ala Ser Thr Gly Gln Ser Pro Glu Asp His Ala Ser		
318	450	455	460
321	Leu Ala Pro Pro Leu Ser Pro Asp His Ser Ser Leu Glu Ala Lys Asp		
322	465	470	475
325	Gly Glu Ser Gly Gly Ser Arg Val Phe Ser Ile Cys Arg Gly Glu Gly		
326	485	490	495
329	Glu Gly Gln Ile Trp Gly Leu Val Glu Lys Glu Thr Ala Ile Glu Gly		
330	500	505	510
333	Lys Val Val Ser Ser Leu Gln Gln Glu Ile Trp Glu Glu Glu Asp Leu		
334	515	520	525
337	Asn Arg Lys Glu Ile Gln Asp Ser Gln Val Pro Leu Glu Lys Glu Thr		
338	530	535	540
341	Leu Lys Ser Leu Gly Glu Glu Ile Gln Glu Ser Leu Lys Thr Leu Glu		
342	545	550	555
345	Asn Gln Ser His Glu Thr Leu Glu Arg Glu Asn Gln Glu Cys Pro Arg		
346	565	570	575
349	Ser Leu Glu Glu Asp Leu Glu Thr Leu Lys Ser Leu Glu Lys Glu Asn		
350	580	585	590
353	Lys Arg Ala Ile Lys Gly Cys Gly Gly Ser Glu Thr Ser Arg Lys Arg		
354	595	600	605
357	Gly Cys Arg Gln Leu Lys Pro Thr Gly Lys Glu Asp Thr Gln Thr Leu		
358	610	615	620
361	Gln Ser Leu Gln Lys Glu Asn Gln Glu Leu Met Lys Ser Leu Glu Gly		
362	625	630	635
365	Asn Leu Glu Thr Phe Leu Phe Pro Gly Thr Glu Asn Gln Glu Leu Val		640
366	645	650	655

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/731,261

DATE: 06/05/2002
TIME: 10:14:17

Input Set : A:\ptoms.TXT
Output Set: N:\CRF3\06052002\I731261.raw

369 Ser Ser Leu Gln Glu Asn Leu Glu Ser Leu Thr Ala Leu Glu Lys Glu
 370 660 665 670
 373 Asn Gln Glu Pro Leu Arg Ser Pro Glu Val Gly Asp Glu Glu Ala Leu
 374 675 680 685
 377 Arg Pro Leu Thr Lys Glu Asn Gln Glu Pro Leu Arg Ser Leu Glu Asp
 378 690 695 700
 381 Glu Asn Lys Glu Ala Phe Arg Ser Leu Glu Lys Glu Asn Gln Glu Pro
 382 705 710 715 720
 385 Leu Lys Thr Leu Glu Glu Asp Gln Ser Ile Val Arg Pro Leu Glu
 386 725 730 735
 389 Thr Glu Asn His Lys Ser Leu Arg Ser Leu Glu Glu Gln Asp Gln Glu
 390 740 745 750
 393 Thr Leu Arg Thr Leu Glu Lys Glu Thr Gln Gln Arg Arg Arg Ser Leu
 394 755 760 765
 397 Gly Glu Gln Asp Gln Met Thr Leu Arg Pro Pro Glu Lys Val Asp Leu
 398 770 775 780
 401 Glu Pro Leu Lys Ser Leu Asp Gln Glu Ile Ala Arg Pro Leu Glu Asn
 402 785 790 795 800
 405 Glu Asn Gln Glu Phe Leu Lys Ser Leu Lys Glu Glu Ser Val Glu Ala
 406 805 810 815
 409 Val Lys Ser Leu Glu Thr Glu Ile Leu Glu Ser Leu Lys Ser Ala Gly
 410 820 825 830
 413 Gln Glu Asn Leu Glu Thr Leu Lys Ser Pro Glu Thr Gln Ala Pro Leu
 414 835 840 845
 417 Trp Thr Pro Glu Glu Ile Asn Lys Ser Gly Gly Asn Glu Ser Ser Arg
 418 850 855 860
 421 Lys Gly Asn Ser Arg Thr Thr Gly Val Cys Gly Ser Glu Pro Arg Asp
 422 865 870 875 880
 425 Ile Gln Thr Pro Gly Arg Gly Glu Ser Gly Ile Ile Glu Ile Ser Gly
 426 885 890 895
 429 Ser Met Glu Pro Gly Glu Phe Glu Ile Ser Arg Gly Val Asp Lys Glu
 430 900 905 910
 433 Ser Gln Arg Asn Leu Glu Glu Glu Asn Leu Gly Lys Gly Glu Tyr
 434 915 920 925
 437 Gln Glu Ser Leu Arg Ser Leu Glu Glu Glu Gly Gln Glu Leu Pro Gln
 438 930 935 940
 441 Ser Ala Asp Val Gln Arg Trp Glu Asp Thr Val Glu Lys Asp Gln Glu
 442 945 950 955 960
 445 Leu Ala Gln Glu Ser Pro Pro Gly Met Ala Gly Val Glu Asn Lys Asp
 446 965 970 975
 449 Glu Ala Glu Leu Asn Leu Arg Glu Gln Asp Gly Phe Thr Gly Lys Glu
 450 980 985 990
 453 Glu Val Val Glu Gln Gly Glu Leu Asn Ala Thr Glu Glu Val Trp Phe
 454 995 1000 1005
 457 Pro Gly Glu Gly His Pro Glu Asn Pro Glu Pro Lys Glu Gln Arg
 458 1010 1015 1020
 461 Gly Leu Val Glu Gly Ala Ser Val Lys Gly Gly Ala Glu Gly Leu
 462 1025 1030 1035
 465 Gln Asp Pro Glu Gly Gln Ser Gln Gln Val Gly Thr Pro Gly Leu

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/05/2002
PATENT APPLICATION: US/09/731,261 TIME: 10:14:18

Input Set : A:\ptoms.TXT
Output Set: N:\CRF3\06052002\I731261.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 8

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29

Seq#:30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53

Seq#:54,55

Use of <220> Feature(NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.

Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence"
or "Unknown". Please explain source of genetic material in <220> to <223>
section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32)
(Sec.1.823 of new Rules)

Seq#:7

VERIFICATION SUMMARY
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DATE: 06/05/2002
TIME: 10:14:18

Input Set : A:\ptoms.TXT
Output Set: N:\CRF3\06052002\I731261.raw

L:624 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:627 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:639 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:642 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4
L:654 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:657 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5
L:669 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:672 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:684 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:686 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:686 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
L:693 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:696 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:708 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:711 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9
L:723 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:726 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:10
L:738 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:741 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11
L:753 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:756 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:12
L:768 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
L:771 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13
L:783 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14
L:786 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:14
L:798 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15
L:801 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:15
L:813 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16
L:816 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16
L:828 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17
L:831 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:17
L:843 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18
L:846 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:18
L:858 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19
L:861 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:19
L:873 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:20
L:876 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:20
L:888 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21
L:891 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21
L:903 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:22
L:906 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:22
L:918 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:23
L:921 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:23
L:933 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:24
L:936 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:24
L:948 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:25
L:951 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:963 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:26

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/731,261

DATE: 06/05/2002
TIME: 10:14:18

Input Set : A:\ptoms.TXT
Output Set: N:\CRF3\06052002\I731261.raw

L:966 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:978 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:27
L:981 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:993 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:28
L:996 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:28
L:1008 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:29
L:1011 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:29
L:1023 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:30
L:1026 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:30
L:1038 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:31
L:1041 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:31
L:1053 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:32
L:1056 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:32
L:1068 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:33
L:1071 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:33
L:1083 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:34
L:1086 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:34
L:1098 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:35
L:1101 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:35
L:1113 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:36
L:1116 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:36
L:1128 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:37
L:1131 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:37
L:1143 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:38
L:1146 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:38
L:1158 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:39
L:1161 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:39
L:1173 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:40
L:1176 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:40
L:1188 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:41
L:1191 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:41
L:1203 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:42
L:1206 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:42
L:1218 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:43
L:1221 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:43
L:1233 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:44
L:1236 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:44
L:1248 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:45
L:1251 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:45
L:1263 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:46
L:1266 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:46
L:1278 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:47
L:1281 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:47
L:1293 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:48
L:1296 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:48
L:1308 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:49
L:1311 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:49
L:1323 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:50
L:1326 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:50

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/731,261

DATE: 06/05/2002

TIME: 10:14:18

Input Set : A:\ptoms.TXT

Output Set: N:\CRF3\06052002\I731261.raw

L:1338 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:51
L:1341 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:51
L:1353 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:52
L:1356 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:52
L:1371 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:53

Additional page 1

<210> 7
<211> 20
<212> DNA
<213> Artificial

— see item #11 on

ERROR SUMMARY SHEET.

20

<400> 7
ctgtgtcagc acgcacgtta

Note: When Artificial Sequence is used for numeric identifier <213> use of <220>, <223> are mandatory.

Addional page 2

<210> 3
<211> 20
<212> DNA
<213> Artificial

See item # 11 on Error Summary sheet.

<220>
<221> primer
<222> (1)..(20)
<223>

<400> 3
gcggggcggt gcgtgactac

<210> 4
<211> 24
<212> DNA
<213> Artificial

<220>
<221> primer
<222> (1)..(24)
<223>

<400> 4
aggcaagggg gaagagaagg atgt

<210> 5
<211> 35
<212> DNA
<213> Artificial

<220>
<221> primer
<222> (1)..(35)
<223>

<400> 5
aagctgaagc cgaatttcct tgggataccaa gagga

24

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

<210> 6
<211> 20
<212> DNA
<213> Artificial

<220>
<221> primer
<222> (1)..(20)
<223>

<400> 6

35



Does Not Comply
Corrected Diskette Needed

1632

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/731,261

DATE: 05/30/2002

TIME: 10:11:24

Input Set : A:\PTO.PG.TXT
Output Set: N:\CRF3\05302002\I731261.raw

3 <110> APPLICANT: Habener, Joel
4 Zulewski, Hendrik
5 Abraham, Elizabeth
6 Vallejo, Mario
8 <120> TITLE OF INVENTION: STEM CELLS OF THE ISLETS OF LANGERHANS AND THEIR USE IN
TREATING DIABETES
9 MELLITUS
11 <130> FILE REFERENCE: 3284/1230
13 <140> CURRENT APPLICATION NUMBER: US 09/731,261
14 <141> CURRENT FILING DATE: 2000-12-06
16 <150> PRIOR APPLICATION NUMBER: US 60/169,082
17 <151> PRIOR FILING DATE: 1999-12-06
19 <150> PRIOR APPLICATION NUMBER: US 60/215,109
20 <151> PRIOR FILING DATE: 2000-06-28
22 <150> PRIOR APPLICATION NUMBER: US 60/239,880
23 <151> PRIOR FILING DATE: 2000-10-06
25 <160> NUMBER OF SEQ ID NOS: 55
27 <170> SOFTWARE: PatentIn version 3.1

ERRORED SEQUENCES

1397 <210> SEQ ID NO: 55
1398 <211> LENGTH: 24
1399 <212> TYPE: DNA
C--> 1400 <213> ORGANISM: Artificial
1402 <220> FEATURE:
W--> 1403 <221> NAME/KEY: PRIMER
1404 <222> LOCATION: (1)..(24)
1405 <223> OTHER INFORMATION:
1408 <400> SEQUENCE: 55
1409 qggtggtgag gggtgagggtt tgtg

24

E--> 1412 1
E--> 1415 3
E--> 1418 1
E--> 1421 1
E--> 1424 - 1 -
E--> 1426 - 3 -

remove extra material
at end of file.